

Application No. 09/538,483
Amendment Under 37 C.F.R. §1.111 dated September 22, 2004
Response to the Office Action dated March 23, 2004

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): An apparatus generating a multicolor image indicated by image data by overlapping monochrome images of different colors according to the image data, comprising:

an amendment unit ~~amending a signal for generation of a monochrome image according to information about the monochrome image contained in the image data and information about a monochrome image of another color contained in the image data~~ generating amended signals, one amended signal for each of the different colors, wherein each amended signal is amended based on information in the image data about the monochrome image for one of the different colors and information in the image data about the monochrome image of another of the different colors; and

an image generation unit generating the multicolor image by generating the monochrome images according to the amended signals ~~amended by said amendment unit~~, and overlapping the monochrome images.

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Claim 2 (Original): The apparatus according to claim 1, wherein

said amendment unit amends the signal based on a correspondence in color and arrangement between pixels forming the multicolor image indicated by the image data.

Claim 3 (Original): The apparatus according to claim 1, wherein said amendment unit amends the signal such that the arrangement of pixels forming the monochrome image can be changed.

Claim 4 (Original): The apparatus according to claim 1, further comprising

an extraction unit extracting partial image data indicating a part of an image indicated by the image data from the image data, wherein

said amendment unit amends the signal according to the information contained in the partial image data.

Claim 5 (Original): The apparatus according to claim 4, wherein

said extraction unit extracts the partial image data containing a pixel forming a monochrome image generated by said image generation unit and pixels around the pixel.

Claim 6 (Currently Amended): The apparatus according to claim 1, further comprising
a selection unit selecting a signal for use by said image generation unit in generating the
monochrome image about each color from among the amended signals ~~by said amendment unit~~.

Claim 7 (Original): The apparatus according to claim 1, wherein
a monochrome image forming part of the multicolor image can be a black monochrome
image, and
said apparatus further comprises a generation unit generating a signal for generation of
the black monochrome image from a signal for generation of a monochrome image of another
color amended by said amendment unit.

Claim 8 (Currently Amended): An apparatus generating a multicolor image indicated by
image data by overlapping monochrome images of different colors according to the image data,
comprising:

~~amendment means for amending a signal for generation of a monochrome image
according to information about the monochrome image contained in the image data and
information about a monochrome image of another color contained in the image data~~ generating
amended signals, one amended signal for each of the different colors, wherein each amended
signal is amended based on information in the image data about the monochrome image for one

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of the different colors and information in the image data about the monochrome image of another of the different colors; and

image generation means for generating the multicolor image by generating the monochrome images according to the amended signals ~~amended by said amendment means~~, and overlapping the monochrome images.

Claim 9 (Original): An apparatus generating a multicolor image indicated by image data by overlapping monochrome images of different colors according to the image data, comprising:

an amendment unit amending a signal for generation of a monochrome image according to information about the monochrome image contained in the image data; and

a correction unit correcting the signal amended by said amendment unit according to an amendment result of a signal for generation of a monochrome image of another color.

Claim 10 (Original): The apparatus according to claim 9, wherein

said correction unit corrects the signal based on a correspondence in color and arrangement between pixels forming a multicolor image generated according to the signal amended by said amendment unit.

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Claim 11 (Original): The apparatus according to claim 9, wherein
said amendment unit is provided for each signal for generation of a monochrome image
of a different color forming part of the multicolor image, and each amendment unit amends the
signal according to the same rule.

Claim 12 (Original): The apparatus according to claim 11, wherein
said amendment unit amends the signal such that the arrangement of pixels forming the
monochrome image can be changed.

Claim 13 (Original): The apparatus according to claim 9, wherein
said correction unit corrects the signal amended by said amendment unit back to an
unamended signal.

Claim 14 (Original): The apparatus according to claim 9, further comprising
an extraction unit extracting partial image data indicating a part of an image indicated by
the image data from the image data, wherein
said amendment unit amends the signal according to the information contained in the
partial image data.

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Claim 15 (Original): The apparatus according to claim 14, wherein
said extraction unit extracts the partial image data containing a pixel forming a
monochrome image generated by the apparatus and pixels around the pixel.

Claim 16 (Currently Amended): The apparatus according to claim 9, further comprising
a selection unit selecting a signal for generation of a monochrome image of each color by
the apparatus from among the signals corrected by said correction unit.

Claim 17 (Original): The apparatus according to claim 9, wherein
a monochrome image forming part of the multicolor image can be a black monochrome
image, and
said apparatus further comprises a generation unit generating a signal for generation of
the black monochrome image from a signal for generation of a monochrome image of another
color corrected by said correction unit.

Claim 18 (Original): An apparatus generating a multicolor image indicated by image data
by overlapping monochrome images of different colors according to the image data, comprising:
amendment means for amending a signal for generation of a monochrome image
according to information about the monochrome image contained in the image data; and

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correction means for correcting the signal amended by said amendment means according to an amendment result of a signal for generation of a monochrome image of another color.

Claim 19 (Currently Amended): A method of generating a multicolor image indicated by image data by overlapping monochrome images of different colors according to the image data, comprising:

~~amending a signal for generation of a monochrome image according to information about the monochrome image contained in the image data and information about a monochrome image of another color contained in the image data~~ generating amended signals, one amended signal for each of the different colors, wherein each amended signal is amended based on information in the image data about the monochrome image for one of the different colors and information in the image data about the monochrome image of another of the different colors; and

generating the multicolor image by generating the monochrome images according to the amended signals, and overlapping the monochrome images.

Claim 20 (Currently Amended): A method of generating a multicolor image indicated by image data by overlapping monochrome images of different colors according to the image data, comprising:

amending a signal for generation of a monochrome image according to information about the monochrome image contained in the image data;

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correcting the amended signal according to an amendment result of a signal for generation of a monochrome image of another color to produce corrected signals; and

generating the multicolor image by generating the monochrome images according to the corrected signals, and overlapping the monochrome images.